



Operating Instructions

Dehumidified air dryer CTT 30

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These operating instructions are for*:

(* Please fill in personally)

Serial number: _____

Year of manufacture: _____

Date of delivery: _____

Number of delivery: _____

Date of commissioning: _____

Location: _____

Group of machines: _____

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1. Safety instructions



These safety instructions apply to all persons within the range of action of the equipment.

Please inform all persons within the range of action of the equipment of the direct and indirect hazards connected with the equipment.

These operating instructions are to be used by all persons assigned activities connected with the equipment.

Knowledge of the English language is prerequisite.

Ensure in each case that the operating personnel are familiar with the operating instructions and the function of the equipment.

1.1. Warnings and symbols

The following warnings and symbols are used in these operating instructions:



This symbol indicates danger to life! Fatal or serious injury is possible if the corresponding instructions, regulations or warnings are not observed.



This symbol indicates that serious injury is possible if the corresponding instructions, regulations or warnings are not observed.



This symbol indicates that extensive damage to equipment is possible if the corresponding instructions, regulations or warnings are not observed.



This symbol indicates information important for becoming familiar with the equipment, i.e. technical correlations.



This symbol indicates that a technical term is explained at this point.

1.2. Explanations and information

Various terms and designations are used in these operating instructions to ensure clarity. Therefore please note that the terms used in the text stand for the corresponding explanations listed below.

- **Equipment**

“Equipment” can mean an individual unit, a machine or an installation.

- **Operating personnel**

The “operating personnel” are persons operating the equipment on their own responsibility or according to instructions.

- **Operator**

The “operator” of the equipment (production manager, foreman, etc.) is the person responsible for all production sequences. The operator instructs the operating personnel of what is to be done.

- **Operating instructions**

The “operating instructions” describe the interaction of the equipment, production sequences or methods. The operating instructions must be compiled by the operator of the equipment.

- **Equipment foreman**

When several operating personnel work on one machine, the “equipment foreman” coordinates the sequences. The equipment foreman must be appointed by the operator.

- **Trained personnel**

“Trained personnel” are persons who, due to their training, are authorized to carry out the required work.

1.3. For your safety

- The operator of this machine must be at least 16 years old.
- Read these operating instructions carefully before the initial start-up. Observe all points. Contact us if anything is unclear.
This avoids injury and damage to equipment!
- These instructions must be stored in such a way that they are available at all times at the place of operation of the machine.
Danger of accidents arising through improper use!
- Please note that for reasons of clarity not every conceivable case of operation or of maintenance can be taken into consideration.
- Observe all safety and hazard warnings on the equipment.
This avoids injury and damage!
- Allow all work on the machine to be carried out only by persons whose qualifications are set out in the relevant chapters of the operating instructions.
Danger of accidents from improper use!
- For all work carried out on the equipment only the prescribed working clothes should be worn. This avoids injury!
- Compare the electric supply values with those of the mains supply.
Danger of accidents from electric shock!
- When using lifting gear, please observe the relevant regulations.
Danger of accidents!
- The local regulations and requirements pertaining to the equipment must be observed.
- Disconnect electrical components from the mains supply before work is carried out on these components. Danger to life and limb from electric shock!

- Do not modify, add other equipment or change the design of the equipment without the approval of the manufacturer. Danger of accidents!

- Compile detailed operating instructions based on the operating instructions supplied for the sequence of procedures to be carried out on this machine.
Danger of accidents from improper use!

- Appoint a machine foreman to be responsible for the machine.

- Ensure that the operating staff are thoroughly trained in the operation of the equipment. Danger of accidents from improper use!

- If the machine is switched off for safety reasons, it must be secured against unauthorised activation. Danger of accidents!

- Before starting maintenance work, appoint a supervisor.

- Inform the staff responsible before starting maintenance work.
Danger of accidents!

- Disconnect the equipment from the mains supply before starting maintenance work to ensure that it cannot be switched on accidentally.
Danger of accidents!

- Repair work may be carried out only by trained staff! Danger of accidents!

- Never operate the equipment when it is partly dismantled!
Danger! Limbs may be caught in machinery! Electric shock!

- The machine may only be operated when all the associated components are properly connected up and in accordance with the relevant regulations.

- In case of malfunction, shut down the equipment immediately. Have faults corrected immediately. Danger of accidents!

- The machine is intended only for the drying of granulated plastics. Any other or additional use is contrary to specifications.
- This machine is not suitable for food-drying.
- Please note that sound levels exceeding 85 db(A) may in the long term damage your health. Use the appropriate ear muffs. This avoids impairment of hearing!
- Attachments not supplied by Colortronic must be manufactured in accordance with safety regulation EN 294. Danger of accidents!
- All pipes, hoses and screwed connections should be checked regularly for leaks and damage. Any faults which arise should be corrected immediately.
Danger of accidents!
- The safety instructions of the connected machines must be followed.
- The return air filter should only be cleaned/replaced when the the main switch is off and the blower has stopped. This avoids injury and damage to equipment!
- Never operate the dryer without side panels.
Danger: Limbs may be caught in machinery! Injury through burns!
- When drying plastics which emit gases dangerous for human health, take care that the regeneration exhaust air is disposed of without polluting the environment.
- Open drying hoppers only if they are completely empty.
- Never open drying hoppers while the device is in operation.
Danger: Injury through burns!
- Open drying hoppers only if they have been cooled down sufficiently.
Danger: Injury through burns!
- Remove any granules remaining on the ground. Danger of accidents!

- Arrest the wheels after installation if the dryer is mounted on a movable frame.
This will prevent danger to people and material!
- Take care that the device is not standing on the mains cable.
This will prevent danger to people and material!
- Please note that the drying cells, drying hoppers and air pipings grow hot during use. Avoid touching any of these parts! Danger: Injury through burns!
- Operate the dryer only if there is at least one drying hopper operating.
This will prevent damage of material!

1.4. Equipment Safety

- Settings should never be changed unless the precise consequences can be assessed.
- Only original Colortronic spare parts should be used.
- Please follow the maintenance instructions.
- A record should be kept of all maintenance and repair work.
- Please note that electronic sub-assemblies can be damaged by static discharges.
- Before the initial start-up and at regular intervals all electrical connections should be checked to see if they fit securely.
- Never adjust sensors without knowing exactly what their function is.
- It should be noted that the maximum ambient temperature should not exceed 35 °C.
- The drying hoppers should be cleaned before they are filled for the first time.
- The manufacturers' specifications re maximum drying temperature should be observed.
- The manufacturers' drying instructions must be followed.
- Please ensure that the drying hoppers are always completely filled and that the dwelling time is adhered to during continual removal.
- Please note that if too great quantities are removed from the drying hopper this may lead to insufficient drying of the material.

- The air slide valves of unused or empty drying hoppers should be closed.
- Please make a note of all data entered in the control system.
- Drying agents must be disposed of in accordance with all official regulations.
- Ensure that drying cells are exchanged by Colortronic or refilled only when empty.
- Please note that the dryer must not be tilted or laid on its side.
- The return air filters are to be cleaned/replaced only when the main switch is off and the blowers have stopped.
- The equipment should be operated only when the hopper(s) is/are sufficiently filled with material.
- The operating instructions of the machines to which it is connected should be obeyed.

2. Assembly instructions



These installation instructions are intended for persons with skills in electrical and mechanical areas due to their training, experience and received instructions.

Personnel using these installation instructions must be instructed in the regulations for the prevention of accidents, the operating conditions and safety regulations and their implementation.

Ensure in each case that the personnel are informed.

The installation instructions provided in the corresponding operating instructions apply for all connected equipment.

Observe safety regulations with regard to lifting gear handling

All installation work must be carried out with the equipment disconnected from electrical power and compressed air supply.



For installation work taking place at heights of over approx. 6 feet, use only ladders or similar equipment and working platforms intended for this purpose. At greater heights, the proper equipment for protection against falling must be worn.

The installation instructions provided in the corresponding operating instructions apply for all connected equipment.

Use suitable workshop equipment.



Install the equipment such that all parts are easily accessible; this facilitates maintenance and repair work.

2.1. Transport

The dryer or the compact unit is delivered on a pallet.

The dryer should only be moved by means of the appropriate lifting equipment (e.g. a fork lift).



Attention should be paid to the load capacity of the lifting equipment.

All safety regulations regarding work with lifting equipment should be obeyed.



The machine must not be tilted or laid on its side.

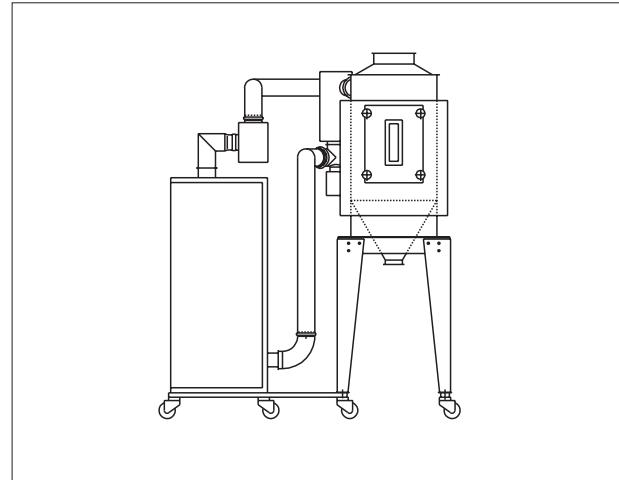
2.2. Installation

Because of its compact construction the dryer can be installed directly beside the processing machine (drying hopper on the processing machine) or supplied with a drying hopper as a mobile attachment (compact unit).

Special foundations are not necessary for installation.

The dryer must be installed on a level surface and must not be exposed to excessive humidity. The maximum permissible ambient temperature is 35 °C.

To facilitate servicing, the dryer should be installed in such a way that it is accessible from 3 sides.



Compact unit



The main switch must be freely accessible.



The equipment must not be tilted or laid on its side.

To conserve energy, keep the distance between dryer, hopper and processing machine as small as possible.

The wheels of the compact unit should be locked to ensure stable installation.

The foil should be removed from the drying hopper.

2.3. Installation of the exhauster fan for regeneration of exhaust air

When plastics are being dried that release harmful gases during the drying process, care must be taken that the regeneration exhaust air is disposed of in an environmentally sound way. At the same time the throughput of the regeneration blower must not be altered. It should be noted when assembling a disposal system (e.g. an exhauster system) that the regeneration exhaust air is very humid. Thus condensation may form, which must not under any circumstances return to the dryer.

2.4. Electrical connection



The electrical connection may only be carried out by Colortronic Service Staff or trained personnel authorised by Colortronic.

It is not permitted for other persons to undertake the electrical connection.

The regulations of the local electrical supply company must be observed.



All the electrical connections and electrical screwed connections must be checked regularly to see if they fit securely.

Before plugging in the mains plug, ensure that the main switch is in position "0".

The connected load is approximately 2.1 kW.

The operating voltage is 220-240 V/50 Hz.
Special voltages on request.

Connect the mains plug to a mains socket.

The fuse must be 16 A.

2.5. Connecting the return air cooler (optional)



A return air cooler must be installed if the return air temperature exceeds 65 °C.

The return air cooler may be connected to a coolant circuit or the water mains network.

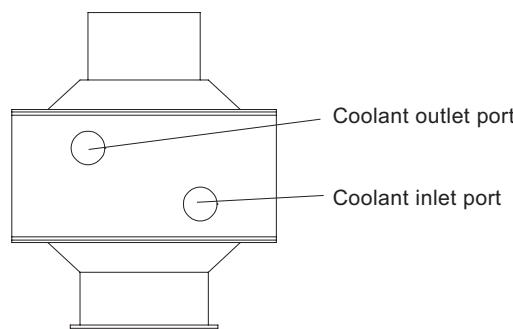
The rate of flow at the water mains network is approximately 0.15 m³/h.

The dimensions of the coolant circuit should be designed accordingly.

Connect the coolant intake and return line to the return air cooler.

The direction of flow of the coolant should be noted.

Check the connections for leaks.



Return air cooler

3. Functional description



This functional description is addressed to the operators of the equipment.

This functional description assumes general familiarity with drying equipment.

It should be verified that the operators do indeed have the appropriate skills.

3.1. General information

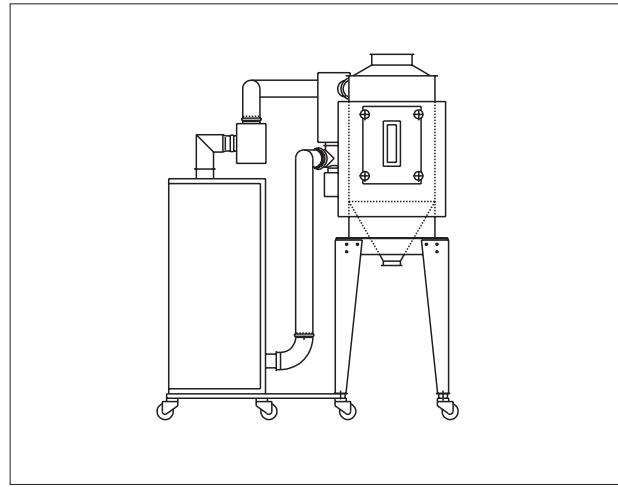
The dehumidified air dryer CTT 30 has been developed for the drying of plastic granules. Because of its compact construction it can be installed directly beside the processing machine (with the drying hopper on the processing machine) or with a drying hopper as a mobile attachment (compact unit).

The dryer works on the principle of dehumidified air, i.e. the air is not only heated but also dehumidified before flowing into the drying hopper.

This principle allows plastic granules to be dried to a very low residual moisture content.

The drying temperature is adjustable. If need be, the dehumidified air can be heated to a maximum temperature of 180 °C (upper limit). Because of the heat released when the water is absorbed in the drying cells the lower limit value of the dehumidified air temperature is approximately 70 °C.

The drying process is continuous, i.e. there are no rest periods as a result of the regeneration of the drying agent.



Compact unit



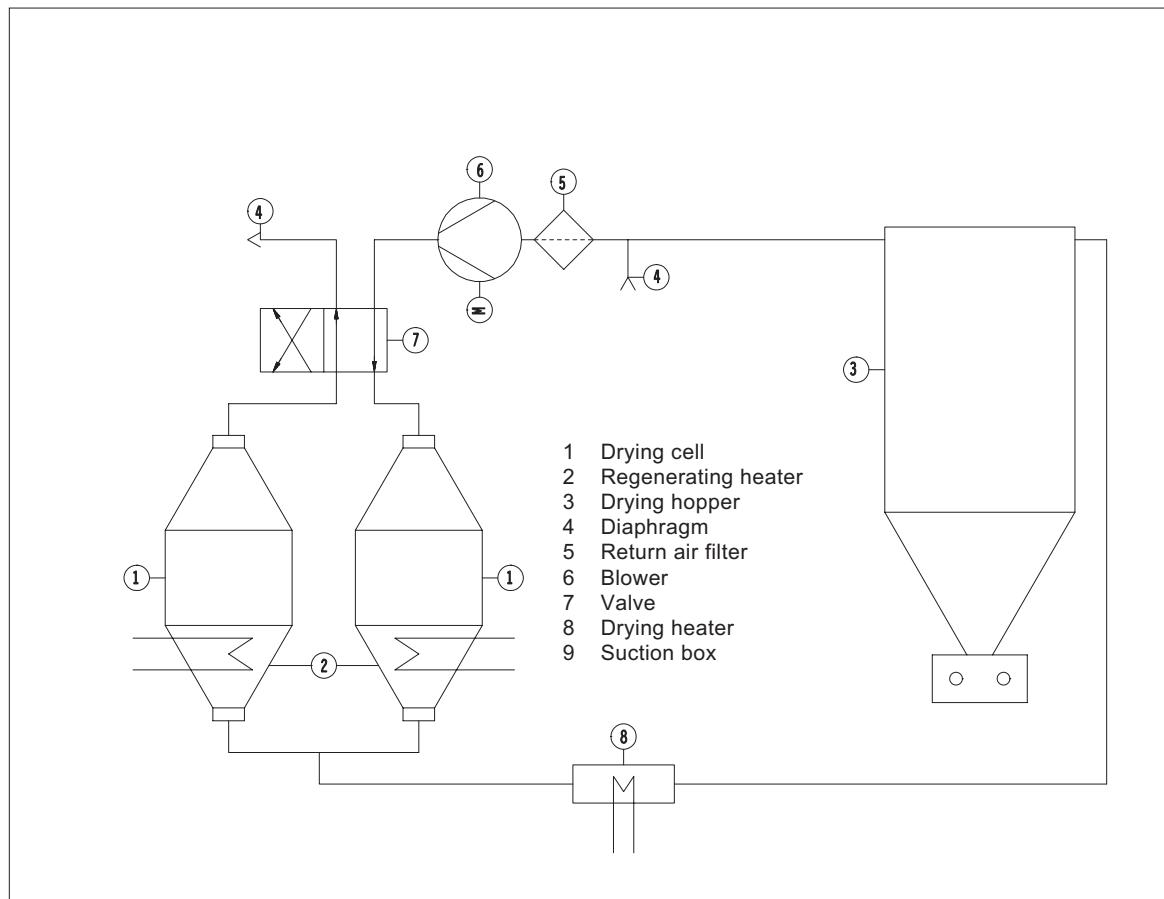
The dryer is designed for continuous operation.

The dryer must only be started up if the drying hopper is full.

All operations are fully automatic.

The dryer is equipped with 2 drying cells. One drying cell is part of the in the drying circuit, the other drying cell is being regenerated at the same time.

A portion of the dehumidified air is available for the regeneration of the damp drying cell. This air is heated up by the regeneration heater at the start of the regeneration. After the heating period the drying cell is cooled off with dehumidified air. After the switch-over time is reached, the regenerated drying cell is introduced into the drying circuit and the cycle begins again.



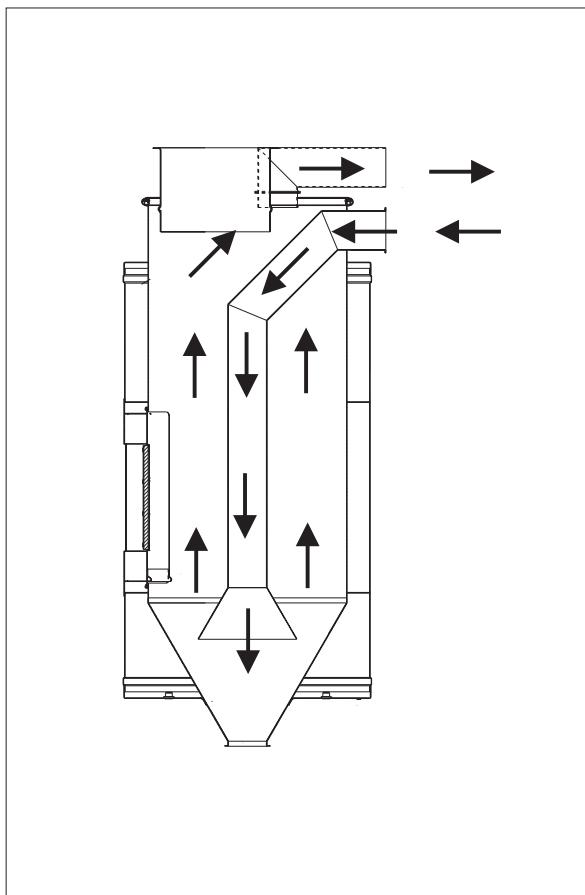
3.2. Drying hopper (optional)

The material is dried in the drying hopper. The dehumidified air is forced through the material in the hopper and absorbs the humidity in the process. The size of a drying hopper must correspond to the intended application, to ensure that the desired final moisture content is attained.

When a drying hopper is refilled the material must first of all be completely dried before material can be removed for the first time.

When material is continuously being removed from the hopper, material must also be continuously fed into the hopper (continuous drying). The new (damp) material is fed into the drying hopper from the top and slowly moves downwards towards the material suction box. The material moves downwards until its final moisture content is attained.

To guarantee continuous drying we recommend keeping the drying hopper always completely filled.



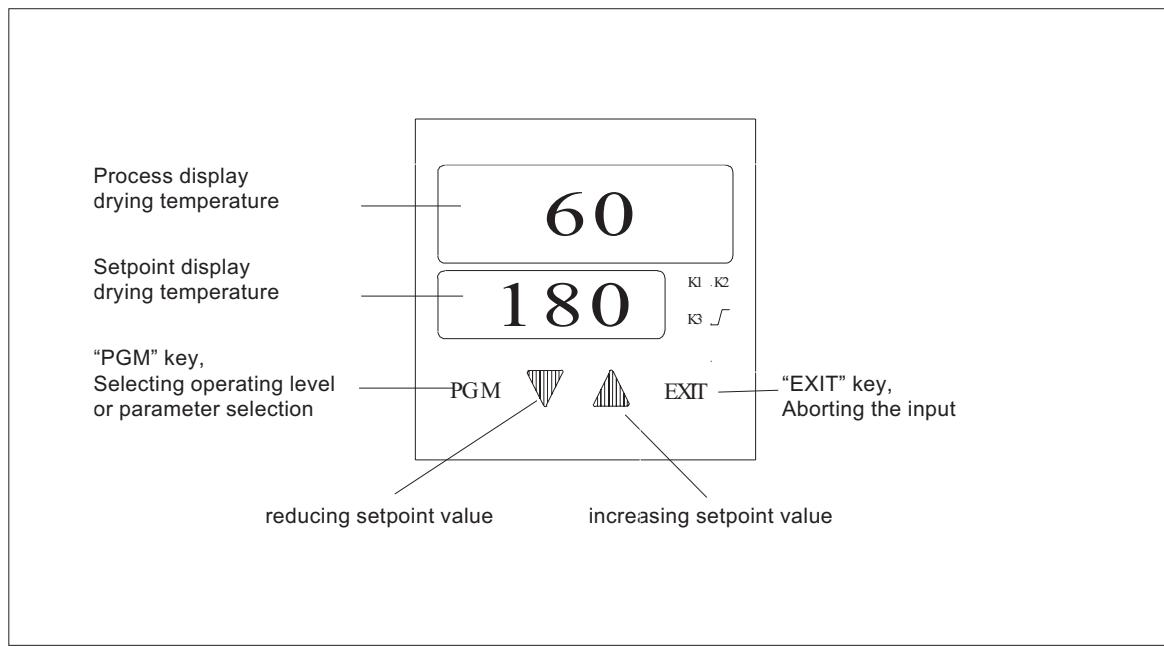
Drying hopper

3.2.1. Hopper heating system

Every drying hopper has its own hopper heating system. The temperature of the dehumidified air is set on the temperature controller. The setting range extends from 60-180 °C. The current temperature can be read on the digital display (actual value).



The thermo regulator is factory-programmed. Nevertheless, you have to set specific values which are dependent on the processed material.



Thermo regulator

3.3. Connection to a pneumatic conveying system

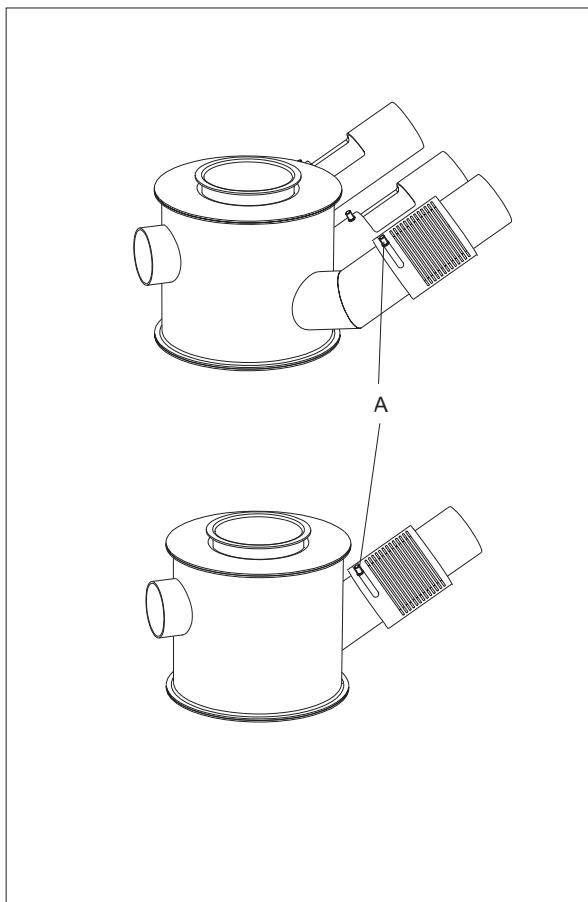
Your drying equipment yields the best results in connection with a pneumatic conveying system. This combination ensures that your drying hopper is always supplied with sufficient material.

Only as much material is removed as is needed in your processing machines. Thus the drying results are always constant.

Colortronic drying hoppers are equipped with a corresponding flange accepting a Colortronic pneumatic conveyor.

Suction boxes with one or three suction tubes can be supplied as well (optional). These suction boxes are developed specifically for this type of hopper.

The loading of the conveying line with material is adjusted by closing or by opening of the control cover (A).



Suction box

3.4. Return air cooler (optional)



A return air cooler must be used when the return air temperature is over 65 °C.

A return air cooler improves the efficiency of the drying cells.



The lower the reading chosen for the return air temperature, the better the efficiency of the drying cells.

The return air cooler can be connected to a coolant circuit or to the water mains network.

4. Start up



This chapter is addressed to the operators of the machine.

This chapter assumes general skills with drying equipment.

This chapter assumes that the functional description has been read and understood.

It must be ensured that the operators have the required experience.



Check that the main switch is in position "0".

Check whether the release switch "Timer" is at "0" position.

Check the drying hopper for cleanliness.

Check to see whether the adhesive film on the drying hopper has been removed.

If there is a return air cooler, switch on its coolant circuit.



When the dryer is switched on and when the valve block is changed, the orange signal lamp lights up briefly.

4.1. Initial start-up

Check whether the inlet of the drying hopper is closed by a blind lid, or whether a conveyor unit (optional) is installed.

If not, manufacture a suitable blind lid and install it on the inlet of the drying hopper or install the conveyor unit (optional).



Attachments which are not supplied by Colortronic must be manufactured according to the safety regulation European Standard 294.

Check whether the coolant circuit of the return air cooler is turned on (if a return air cooler is installed).

4.1.1. Switching on the dryer

Switch on the dryer at the main switch.



The green signal lamp lights up.

For operation without timer clock:

Turn the release switch "Timer" at "I" position.

For operation with timer clock (if available, optional):

Turn the release switch "Timer" at "II" position.



The blower is running.



If the dryer has not been in use for several months it must be operated for about 2 hours without material.

Turn the thermo regulator to +80 °C for the drying temperature.

Press the "PGM" key.

PGM

Set by means of the arrow keys the drying temperature to "80".



After 2 seconds the display flashes and the value is stored.

Press the "EXIT" key (the setpoint value and the actual value of the drying temperature are displayed).

EXIT

After 2 hours turn the release switch "Timer" at "0" position.



Wait until the blower has stopped.
The run on time of the blower is 10 minutes.

If there is a return air cooler installed, switch off its coolant circuit.

Switch off the main switch of the dryer.



The green signal lamp goes off.

4.2. Continuous Operation



Fill at least half of the drying hopper with material.

4.2.1. Switching the Dryer on

Switch on the main switch of the dryer.



The green signal lamp lights up.

For operation without timer clock:

Turn the release switch "Timer" at "I" position.

For operation with timer clock (if available, optional):

Turn the release switch "Timer" at "II" position.



The blower is running.

4.2.2. Setting the drying temperature

For each drying hopper, set the required drying temperature (= desired value) by means of the respective thermo regulator.

Check whether the set drying temperature is appropriate for the materials which have been filled in.

Observe the instructions of the material manufacturer.

After the first filling, process the material only after the retention period is over.
Observe the instructions of the material manufacturer.

Press the "PGM" key.

PGM

By means of the arrow keys select the desired value for the drying temperature.



After 2 seconds the display flashes and the value is stored.

Press the "EXIT" key (the setpoint value and the actual value of the drying temperature are displayed).

EXIT



After a change of materials, immediately check and correct the set drying temperature.

Optimizing the thermo regulator

Press the “EXIT” key for at least 2 seconds until “tunE” is displayed.

EXIT



“tunE” flashes.
The optimization can take several minutes.

If “tunE” stops flashing, the optimization is finished.

Press the “EXIT” key.

4.3. Switching the Dryer off

Set the release switch “Timer” at “0” position.



Wait until the blower has stopped.
The run on time of the blower is 10 minutes.

If there is a return air cooler installed, switch off its coolant circuit.

Switch off the main switch of the dryer.



The green signal lamp goes off.

4.4. Indication of malfunctions



Malfunctions are indicated by a steady light signal of the orange lamp.

Malfunctions must be corrected before the control system can resume operations.

The following malfunctions can set off an alarm:

Blower

The pressure produced by the blower is too low.

Regenerator heater 1

The safety temperature limiter of regeneration heater 1 has been tripped.

Regenerator heater 2

The safety temperature limiter of regeneration heater 2 has been tripped.

Hopper heater

The safety temperature limiter of the hopper heater has been tripped.



When the fault has been repaired the pilot lamp will no longer be on.

5. Maintenance



This chapter is intended for persons with skills in electrical and mechanical areas due to their training, experience and received instructions.

Personnel using the instructions in this chapter must be instructed of the regulations for the prevention of accidents, the operating conditions and safety regulations and their implementation.

Ensure in each case that the personnel are informed.

For maintenance work taking place at the heights of over approx. 6 feet, use only ladders or similar equipment and working platforms intended for this purpose. At greater heights, the proper equipment for protection against falling must be worn.

Use only suitable lifting gear which is in proper working order and load suspension devices with sufficient carrying capacity. Do not stand or work under suspended loads!

Ensure that the electric motors/switch cabinets are sufficiently protected against moisture.

Use suitable workshop equipment.

Before starting maintenance work, appoint a supervisor.

Inform the responsible personnel before maintenance work on the system is started.

Never operate the equipment when partially dismantled.

Any maintenance and repair work NOT described here may only be carried out by Colortronic service personnel or by specialised staff authorised by Colortronic.



Disconnect the equipment from mains supply before starting mainenance procedures to ensure that it cannot be switched on unintentionally.

All compressed air pipes on the equipment should be depres-surised before starting maintenance work.



Please observe the maintenance schedule.

Before starting maintenance work, clean the equipment of oil, fuel or lubricant.

Ensure that materials and incidentals required for operation as well as spare parts are disposed of properly and in an environmentally sound manner.

Use only original Colortronic spare parts.

Keep record of all maintenance and repair procedures.

5.1. Maintenance schedule

Daily: Check warning signs on equipment for good legibility and completeness

 Clean return air filters and casing (depending on dust build-up)

Weekly: Check main switch for proper function

 Check the signal lamps for proper function

Every six months: Change return air filters (depending on dust build-up)

 All electrical and mechanical connections should be checked to see if they fit securely

Annually: Dewpoint should be checked (only by Colortronic service personnel)

Whenever the material is changed: The drying hopper and suction box must be cleaned



The service intervals refer to a 3-shift operation.



The given maintenance intervals are average values.

Check whether in your individual case the maintenance intervals must be shortened.

5.2. Cleaning/changing the air filters

Set the release switch "Timer" at "0" position.



Wait until the blower has stopped.
The run on time of the blower is 10 minutes.

If there is a return air cooler installed, switch off its coolant circuit.

Switch off the main switch of the dryer.



Interrupt the mains supply so that the device cannot be switched on unintentionally.



The green signal lamp goes off.

Clogged filters substantially reduce the amount of circulating air and lead to a production lag of your dryer. Clogged filters may also damage the heating elements.

Cleaning/changing return air filters

Detach the retaining clamps on the casing of the return air filter and remove the lid of the casing.

Remove the filter cartridge.

Clean the inside of the return air filter casing. Fibre-free tissues or an industrial vacuum cleaner should be used.

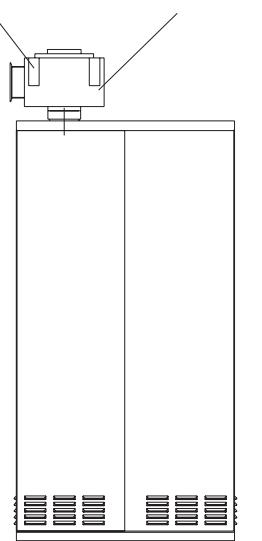
The dirty filter cartridge should be aspirated from the inside out with compressed air or the filter cartridge changed.

Insert the cleaned/new filter cartridge.

Install the lid of the return air filter casing.

Secure the retaining clamps.

retaining clamp return air filter



CTT 30



The dryer should never be operated without return air filters.



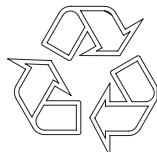
Order numbers return air filters

for operation without a return air cooler: ID 85685

for operation with a return air cooler: ID 85684

5.3. Disposal of drying agents

Care should be taken that drying cells are changed or refilled by Colortronic only when empty.



Drying agents should be disposed of only in accordance with all official regulations.

Used drying agents should be disposed of as special waste, as they can be contaminated with foreign matter from the dried materials.



Colortronic cannot take back the used drying agents or the drying cells with used drying agents.

5.4. Testing the pilot lamp



The green signal lamp is always on when the dryer is operating.

The orange signal lamp goes on in the case of an alarm message, but can also flash shortly when the valve block is changed.

5.4.1. Changing the bulb of the pilot lamp

Set the release switch "Timer" at "0" position.



Wait until the blower has stopped.
The run on time of the blower is 10 minutes.

If there is a return air cooler installed, switch off its coolant circuit.

Switch off the main switch of the dryer.



Interrupt the mains supply so that the device cannot be switched on unintentionally.



The green signal lamp goes off.

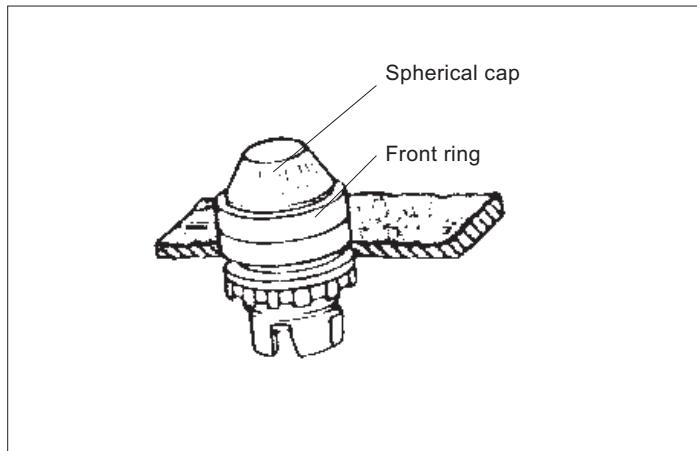
Open the front ring.

Remove the green/orange spherical cap.

Replace the bulb.

Fix the green/yellow spherical cap.

Fix the front ring.



Signal lamp



Purchase order number

bulb: ID 85945

5.5. Cleaning drying hoppers

Set the release switch "Timer" at "0" position.



Wait until the blower has stopped.
The run on time of the blower is 10 minutes.

If there is a return air cooler installed, switch off its coolant circuit.

Switch off the main switch of the dryer.



Interrupt the mains supply so that the device cannot be switched on unintentionally.



The green signal lamp goes off.



Clean the drying hopper each time you are changing the materials.

Make sure that the drying hopper has cooled down sufficiently.

Make sure that the drying hopper is completely empty.

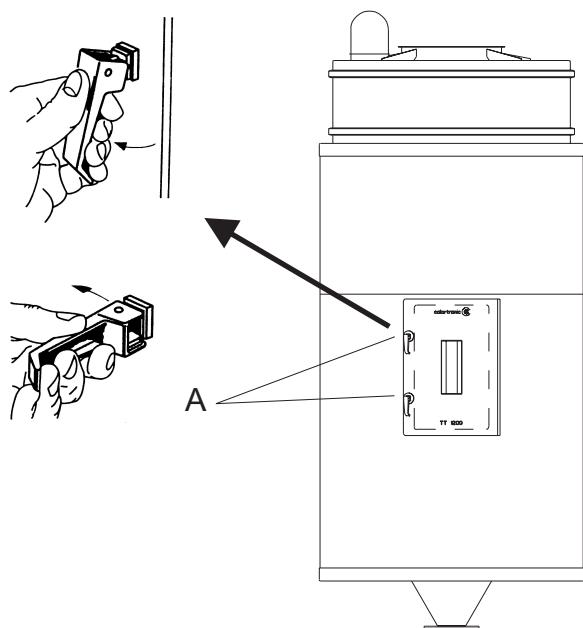
Remove any granules remaining on the ground.

Open the cleaning opening of the drying hopper at the handle (A).

Clean the drying hopper.

Close the cleaning opening of the drying hopper.

Remove any granules remaining in the cleaning opening.



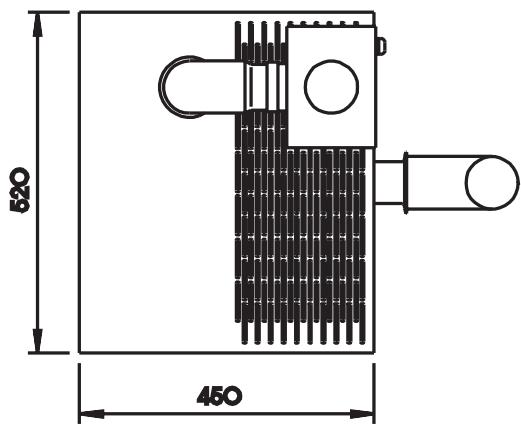
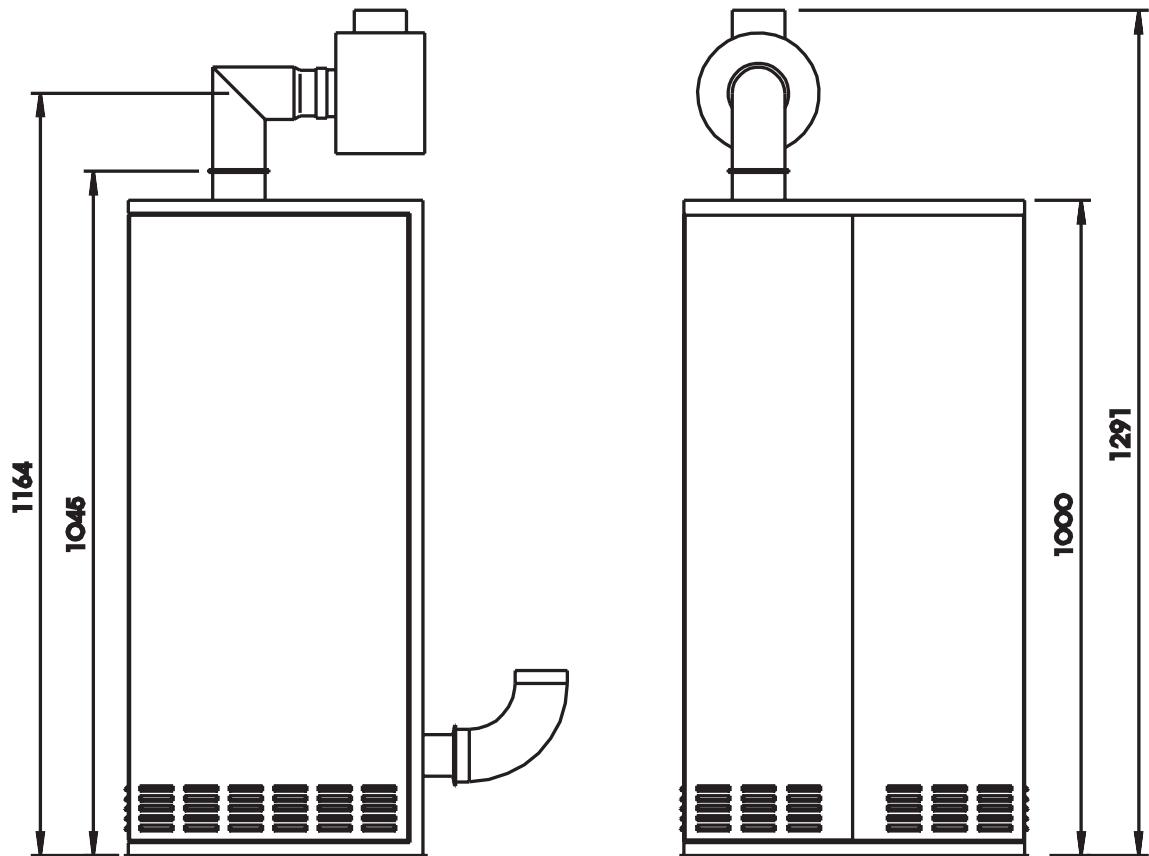
TT 60 - TT 1600

6. Technical data

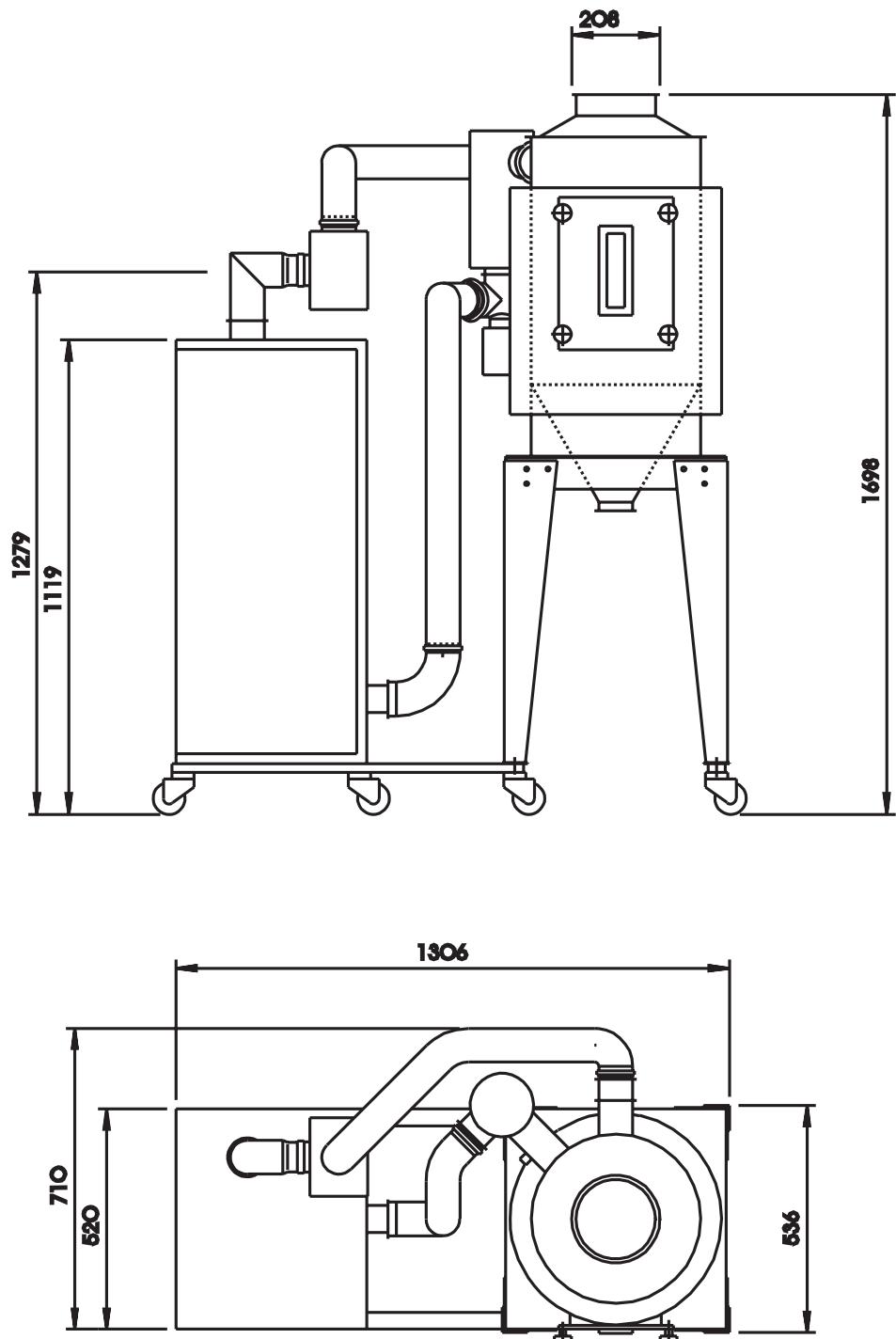
6.1. CTT 30

Dehumidified air throughput:	.....	max. 30 m ³ /h
Operating voltage:	.....	220-240 V/50 Hz
Special voltage by request		
Connected load:	.....	2.1 kW
Calorific output (drying):	.....	max. 1.5 kW
Calorific output (regenerating):	.....	max. 0.45 kW
Drive power (drying/regenerating):	.....	0.1 kW
Drying temperature:	.....	max. 180 °C
Width:	.....	450 mm
Depth:	.....	520 mm
Height:	.....	1170 mm
Weight of CTT 30:	.....	approx. 80 kg
Noise level:	.....	approx. 70 dB (A)

6.1.1. Dimension sheet



Dimensions and data without obligation. Dimensions in mm. Specifications may be subject to alterations.

Compact unit

Dimensions and data without obligation. Dimensions in mm. Specifications may be subject to alterations.

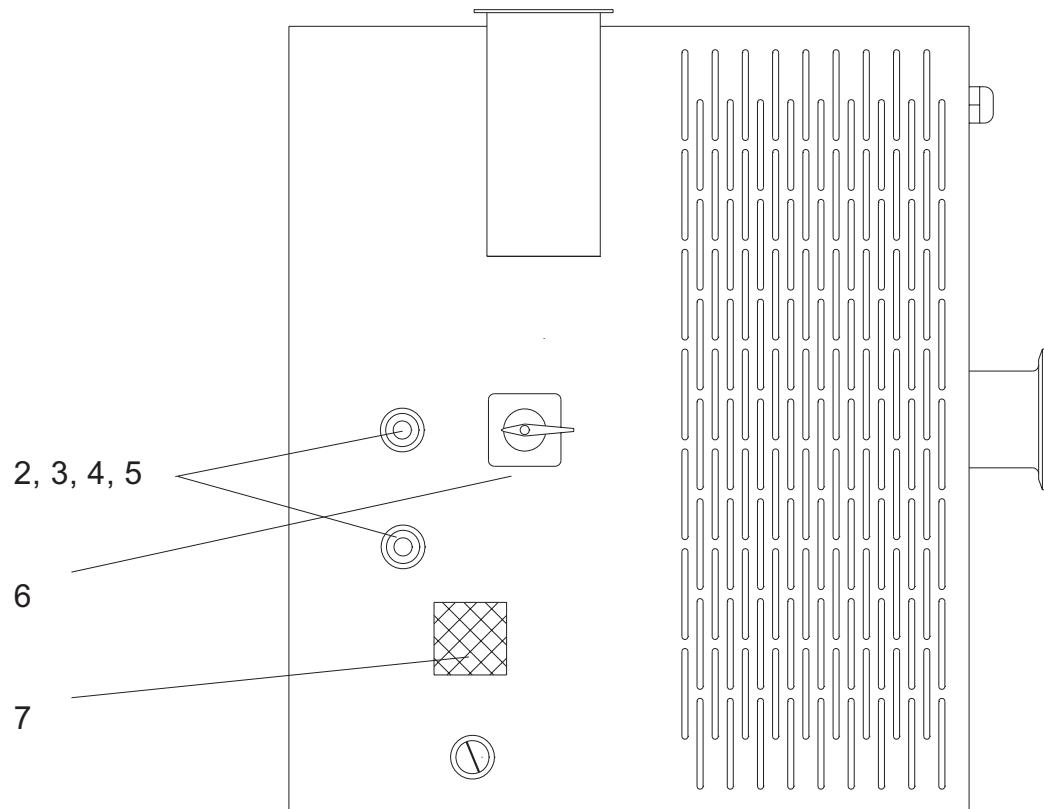
7. Annex

7.1. Spare parts list

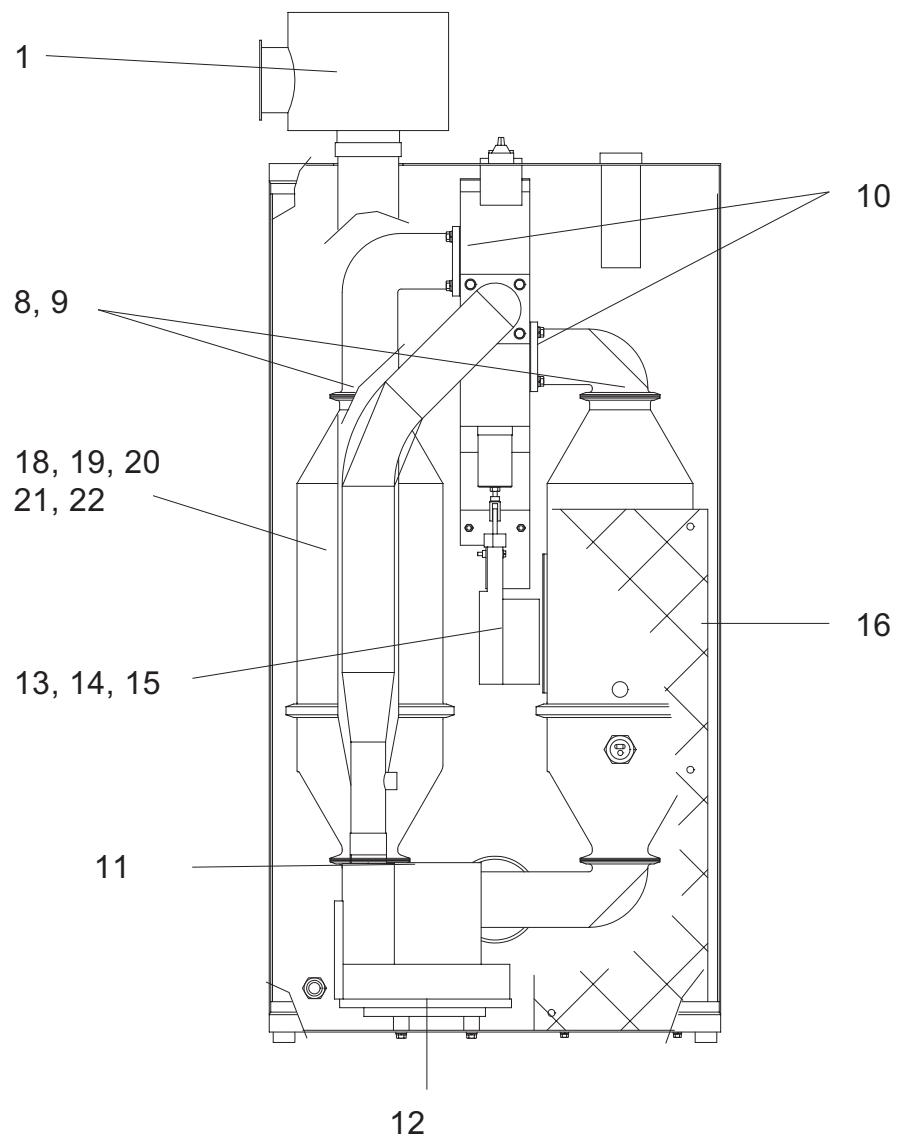


This spare parts list is intended to be used only by trained personnel.

Other persons are not permitted to modify or repair the equipment.

CTT 30

Pos.	ID-number	Description
2	85942	lamp bottom
3	85943	spherical cap, orange
	85247	spherical cap, green
4	87452	fastening
5	85945	bulb
6	88904	main switch
7	87454	thermo regulator



Pos.	ID-number	Description
1	85684	return air filter, when operating with return air cooler
	85685	return air filter, when operating without return air cooler
8	94233	sealing ring
9	93298	hose clamp
10	21041	sealing valve housing
11	83339	pressure switch
12	85693	blower
13	85280	motor operator
14	21032	valve housing
15	21033	spindle
16	30957	control
18	85692	heater
19	23219	sieve
20	85690	sealing ring
21	85691	hose clamp
22	96196	desiccant
	85689	base
	85819	guide roll with fixing device
	85820	guide roll

7.2. Electrical manual



This electrical manual is intended to be used only by Colortronic service personnel and trained personnel authorized by Colortronic.

Other persons are not permitted to modify or repair the equipment.

Connection diagram no.: _____

Currently not available; will be delivered at a later date !

7.3. Accessories

Basic setting thermo regulator _____

Basic setting thermo regulator

This information is intended to be used only by Colortronic service personnel and trained personnel authorized by Colortronic.

Other persons are not permitted to modify or repair the equipment.

Code				
C111	0	0	0	0
C112	6	0	0	0
C113	0	0	3	4
C114	1	0	0	1
SPL	0	0	4	0
SPH	0	1	8	0

Parameter	Parameter set 1
AL1	20.0
HYS1	1
rASd	10.0